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Integrated Strategy for Autonomous Drive, Connected Vehicle and Robotics

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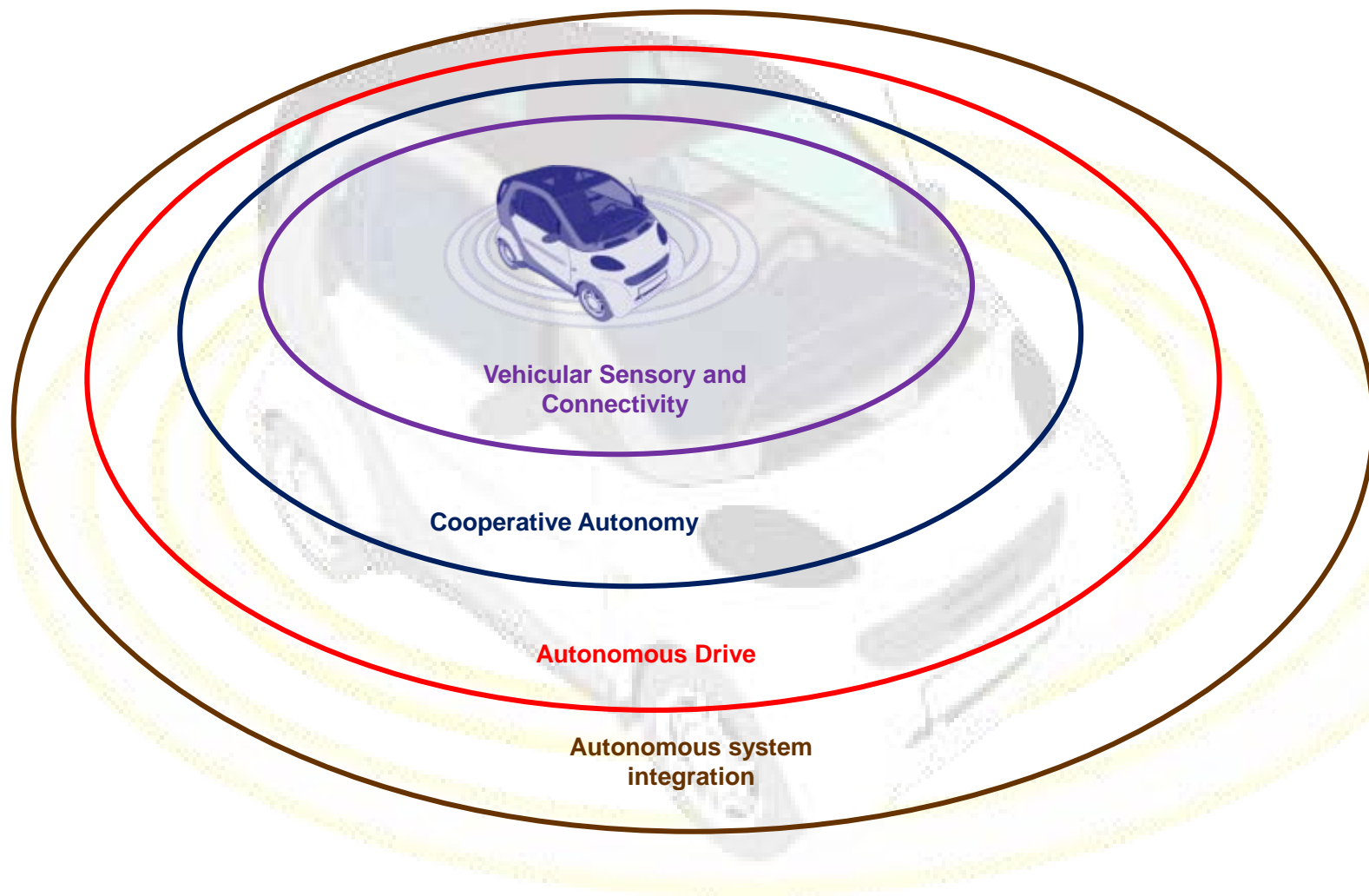
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Strategic Goal

- Synchronize the activities of Government, industry, and academia to develop technologies, encourage policies, shape investments, and establish leadership in anticipation of transportation needs for the 21st century and beyond



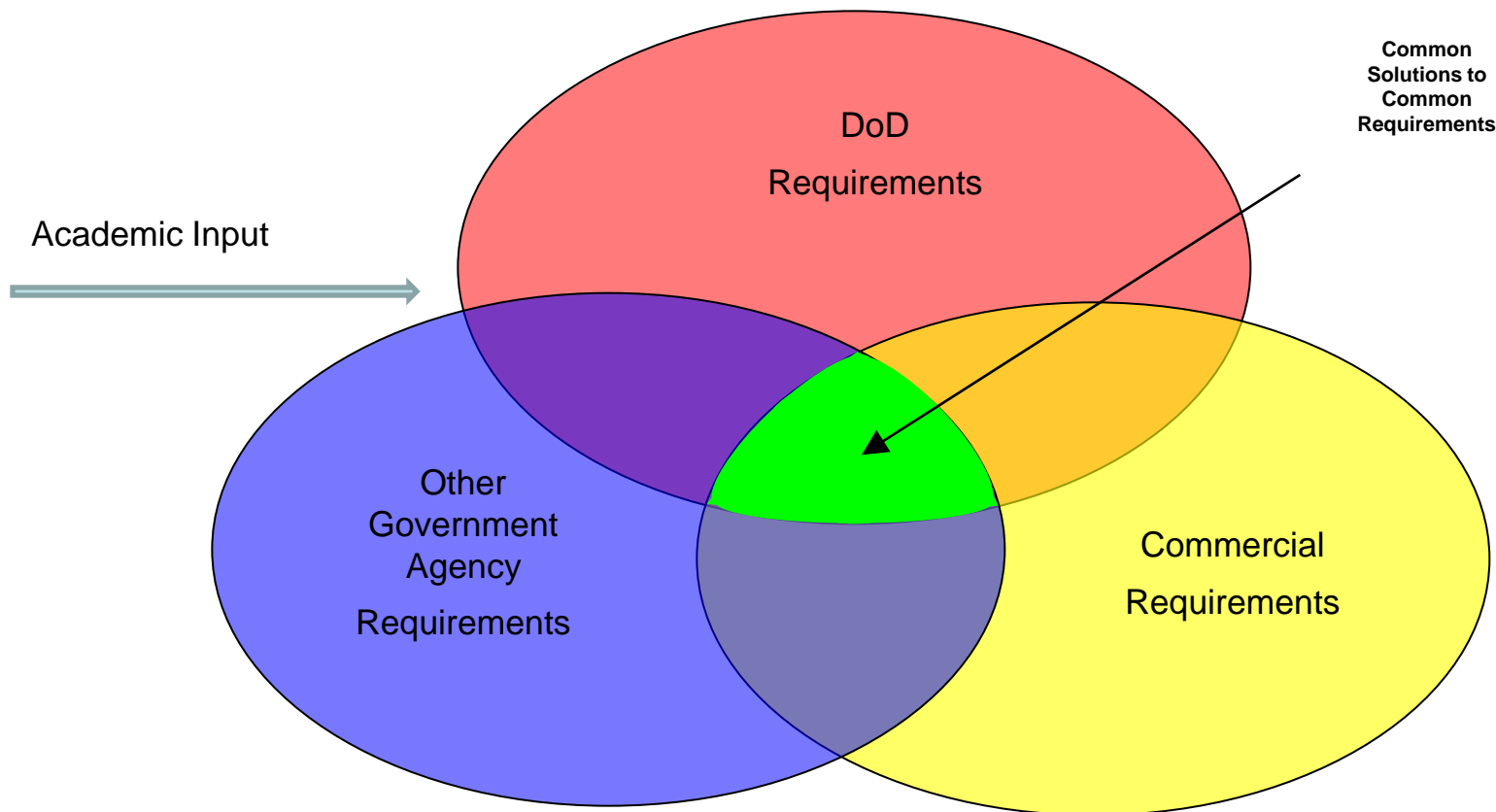
- **Vehicular Sensory and Connectivity** In vehicle enabling infrastructure
Examples: composition, fusion, "geography", road-map, control, networking
- **Cooperative Autonomy** Intra vehicle network, communications, rules and behaviors/actions/reactions
Examples: fused networks, autonomous connectivity architecture, autonomous communications protocols, roadway/ITS cooperation, cooperative control applications, cooperative safety
- **Autonomous Drive** Driver and passenger
Examples: Human Machine Interface, proactive destruction, autonomous vehicle design, semi autonomous, assisted driving, proactive safety
- **Autonomous system integration** The autonomous vehicle and its environment
Examples: Mixed use, transportation systems, infotainment, navigation, standards



Strategic Benefits



- Improved competitive position in world's marketplace
- Increased economic and national security
- Reduced fatalities
- Reduced congestion
- Improved fuel efficiency
- Improved commerce efficiency





- Autonomous Drive, Connected Vehicle and Robotics will continue to grow in capabilities and acceptance in the coming decade.
- Cooperation between each of these thrusts is critical to overcome technical, regulatory and funding constraints.
- The Autonomous Drive, Connected Vehicle and Robotics coordination white paper will be the coordination document identifying gaps and opportunities.